

REMARKS/ARGUMENTS

After the foregoing Amendment, Claims 1, 2, 4-8, 10-13 and 15-16 are currently pending in this application. Claims 3, 9, and 14 have been canceled without prejudice. Claims 1, 4, 7, 10, 11, 12, 15 and 16 have been amended to more distinctly claim subject matter which the Applicants regard as the invention. In the drawings, Figure 1 has been amended to include the legend "Prior Art". Applicants submit that no new matter has been introduced into the application by these amendments.

Claim Rejections - 35 U.S.C. §103(a)

Claims 1-16 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Whinnett in view of Stewart.

The present invention transmits over a first antenna a first communication burst with a first data field followed by a midamble followed by a second data field and a second antenna transmits a second communication burst with a negative complex conjugate of the second data field followed by a midamble followed by a complex conjugate of the first data field. Neither Whinnett nor Stewart alone or in combination teach or suggest such an arrangement.

Whinnett discloses a system for transmitting a signal and its complex conjugate from an antenna array. As the Office Action noted, Whinnett fails to disclose that the signal transmitted is composed of a first and second data field separated by a midamble, and in particular the arrangement of the present claims. Stewart only shows the structure of a midamble. Neither disclose the switching the order of the data field over one antenna and, in particular, the manner as described in the claims.

Applicants: Kim et al.
Application No.: 10/005,649

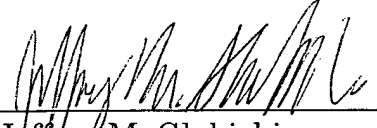
Conclusion

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

In view of the foregoing amendment and remarks, Applicants respectfully submit that the present application is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

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Enclosure

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Amendments to Drawings:

The attached sheet of drawings includes changes to Figure 1. This sheet, which includes Figure 1, replaces the original sheet including Figure 1. In Fig.1, the legend "Prior Art" has been added.